ECOLOGY AND ENVIRONMENT, INC.

925867

REGION VI

MEMORANDUM



TO:

Keith Bradley, Region RPO

FROM:

Hunt Chapman, FIT Chemist

X REF IN SA Vol. 1

THRU: K.H. Malone Jr., RPM

TXD 980 623 193

DATE: August 30, 1985

Dallas City of LDFL-Walnut Hill

SUBJ: Sampling Inspection at Walnut Hill Landfill, Dallas, TX (TX10154)

TDD# R6-8502-39

The Walnut Hill Landfill is located east of Stemmons Freeway (I-35E) between Luna Road on the west, Manana Drive on the south, and Southwell Street on the north in Dallas, Texas. The site is 490.75 acres and is bisected by Walnut Hill Lane (Refer to site map).

On April 10 and 11, 1985 the FIT conducted a sampling inspection at this site. The FIT included the following members: Hunt Chapman, Team Leader, and Team Members Steve Calhoun, Alcee Chriss, Katie Schenk, Les Cole and Ray Roblin.

On a previous reconnaissance inspection, a sediment sample collected showed subppb traces of aldrin and dieldrin and 23 other tentatively identified organic compounds in the ppm range. The rationale behind the April, 1985 sampling inspection was to determine if those contaminants were coming from the site, or were merely passing through it via the drainage channel and streams. The sample locations are shown on the site sketch included in this report. They consisted of 6 low waters and 14 low soils.

The property is currently owned by three parties:

Bluebird Farms, Inc. 800 Tower Life Building San Antonio, Texas 78205

Mr. C.B. Myers 4808 Allen Crest Dallas, Texas 75234

Placer Properties 1385 Promanade Center Richardson, Texas 75080

Mr. Ron Ewing of Placer Properties accompanied the FIT on April 11, 1985 during the sampling of the property owned by Placer Properties. He requested and was given split samples taken from his property.

> SUPERFUND FILE

JUN 2 4 1992

REORGANIZED

Proposed Monitoring Well Plan

The Eagle Ford Shale formation underlies the Walnut Hill Sanitary Landfill site and the base of the landfill is located in the shale. The top of the Eagle Ford Shale at the location is at an elevation of approximately 400.0 to 410.0 feet. In at least one section of the landfill, the shale was excavated to an elevation of approximately 390.0 feet, about 20 feet into the shale. Current surface elevations at the proposed monitoring well locations range from about 425.0 to 435.0 feet. In order to determine if lateral movement of possible leachate is occurring, some of the monitoring wells should be installed to a depth of 35 to 45 feet. Reports of soil borings that were drilled at the landfill indicate that the groundwater table is in the range of 3 to 10 feet below the surface. The combination of a near surface water table and the deeper excavations in the shale indicate the need to install cluster wells at several of the proposed locations. The majority of the wells should be drilled approximately 7 feet into the shale and screened from about 2 feet above the water table to within 2 feet of the bottom of the hole. The deeper wells should be drilled approximately 20 feet into the Eagle Ford shale and screened for a 10 foot section near the bottom of the hole. Locations of the proposed wells are shown on the attached map. Actual locations will have to be field determined and the exact depths and screened intervals will depend on what is encountered during drilling of the wells.

Anticipated groundwater flow is expected to be to the west to southwest, basically parallel to the California Crossing Drainage Channel, toward the Elm Fork of the Trinity river. Because of the large extent of the Walnut Hill Sanitary Landfill it is recommended that monitoring wells be installed at eleven locations around the site. Locations No. 1 and 11 are located to the northeast to serve as upgradient wells. Downgradient wells, 2 through 10, should be located very close to the landfill boundary to eliminate the possibility of contamination from other areas. Locations 1, 4, 6 and 8 should have cluster wells installed as described above. The monitoring wells should be drilled with an auger of sufficient size for the installation of 2.0 inch I.D. schedule 80 PVC casing and well screen.

Estimated cost for drilling, installing and developing the monitoring wells is \$21,500.00. The following is a breakdown of the cost by tasks:

Mobilization and demobilization	2,500.00
Soil boring and sampling	5,500.00
Well installation and development Decontamination of drilling equipment	10,500.00
and containerization of waste	3,000.00

Total Cost \$21,500.00

The cost of decontaminating drilling equipment between holes and waste containerization of drilled material into drums is included in this estimate. The estimate does not include the cost of drum disposal by a waste contractor. This estimate assumes that drilling related wastes generated on site can be disposed of at the Walnut Hill Sanitary Landfill.

There are two streams entering the landfill (See site map). On the northern boundary of the site, a third stream has been diverted around the site boundary. At a point on the northern site boundary, just east of the railroad tracks, the stream forms a pond. The depth of this pond is not known, but its southern edge is against the landfill clay cap.

Samples taken from this northern stream were at Stations 01 and 04. Station 03 is also in this area, in a ditch between railroad tracks and the western edge of the clay cap. This sample was taken at a point that appeared to be a surface water run off point indicated by significant erosion of the clay cap (Photo #2). The sample results for Station 01 (upstream) indicates that the water contains iron and manganese above the secondary drinking water standards. The soil sample taken at Station 01 contains 23 ppb endosulfan I. The results for Station 04 (downstream) relative to Station 01 indicate elevated levels of iron and manganese in the water and soil. The concentration of zinc in the soil downstream is also elevated while the level of zinc in the water is lower than the upstream concentration. Station 04 also contains fluoranthene, pyrene and beta-BHC in the ppb range. In addition there are 22 tentatively identified semi-volatile organic compounds in the soil at Station 04.

Station 03 contains fluoranthene and pyrene at approximately the same levels as Station 04. It also contains beta-BHC at about half the concentration of Station 04. In addition, a trace of tetra chloroethene was found at Station 03. None of the tentatively identified compounds found at Station 04 appear at Station 03.

The two streams crossing the site enter from the east side of the landfill, one north and one south of Walnut Hill Lane (see site map). They converge at a point on the site to make up the California Crossing drainage channel. Sample Stations 05, 06 and 07 are from the northern stream, sample Station 08 and 09 are from the southern stream, and Station 10 is the downstream sample from California Crossing taken off-site.

The sample results from the soil sample taken at Station 05 indicate the presence of fluoranthene, pyrene, phenanthrene, chlordane, and 17 tentatively identified semi-volatile compounds all in the low ppm range. Toluene, benzene, and chloroform were found in the low ppb range. The soil sample also contained elevated levels of silver, lead, copper and zinc. (The lead value is an estimate due to matrix interference in the samples). The water sample contained 15 ppb chloroform.

The only contaminant in the soil sample taken at Station 06 was a trace of chloroform (low ppb). The Station 07 soil sample contained traces of fluoranthene, pyrene (ppb range), and 11 tentatively identified semi-volatile compounds in the low ppm range. The water sample contained chloroform (9 ppb) and 5 tentatively identified compounds.

The water sample taken at Station 08 (upstream, south stream) had traces of chloroform, trans, 1-2 dichloroethene, N-nitroso diphenylamine, and bis(2 ethyl hexyl) phthalate. The phthalate may be a lab contaminant. The soil sample taken at this station, contained fluoranthene, (1200 ppb), pyrene (1260 ppb), chrysene (516 ppb) and 17 tentatively identified semi-volatile compounds. It also contained elevated levels of lead and zinc. (The lead value is an estimated value due to matrix interference).

The soil sample taken at Station 09 (approximately 1000 feet downstream) contained increased levels of these and other compounds indicating that these compounds are entering the stream from the landfill. This sample also contained traces of benzene, naphthalene, acenaphthalene and fluorene as well as 17 additional tentatively identified compounds not found at Station 08. The concentrations of lead and zinc are also elevated relative to Station 08 (The lead value is an estimate due to matrix interference).

The downstream sample taken at Station 10 did not show any of the contaminants seen in the upstream samples.

The samples taken at Stations 11-15 represent surface run-off points at various site boundary locations. The sample from Station 11 contained traces of fluoranthene and pyrene as well as endosulfan I (14 ppb), DDT (110 ppb) and 4 tentatively identified compounds.

The sample from Station 12 contained fluoranthene (2100 ppb), pyrene (1700 ppb), phenanthrene (990 ppb), benzo(a)anthracene (770 ppb), chrysene (840 ppb), benzo(b)fluoranthene (600 ppb), benzo(k)fluoranthene and benzo(1)pyrene as well as traces of benzoic acid, acenaphthylene, acenaphthene and fluorene. the sample also contained 14 tentatively identified semi-volatile compounds.

The sample from Station 13 only contained 4 tentatively identified compounds.

The sample from Station 14 contained arochlor 1254 (300 ppb), beta BHC (12 ppb), traces of fluoranthene, pyrene and phenanthrene, as well as 3 tentatively identified compounds.

The sample from Station 15 contained traces of diethyl phthalate, di-n-octyl phthalate, fluoranthene, pyrene, benzo(a)anthracene, chrysene, butyl benzyl phthalate and one tentatively identified compound.

The data from this site indicates that several contaminants are entering the site via the incoming streams, and that contaminants are also leaching into the stream at Station 09 on-site. However, the downstream sample taken at Station 10 does not indicate that they are going off-site. There are thick stands of cattails and other plants in parts of the California Crossing. Considering the low levels of contaminants in the area, the low flow of water through the site, and the nature of the contaminants, bioaccumulation in these plants, adsorption onto clay, and natural biodegradation are possible scenarios to account for this.

Contaminants may be leaving the site near Station 04 via the stream on the northern landfill boundary. Also, the results indicate possible leachate run-off at Station 12. However, the area around the landfill is heavily industrialized leaving questions as to the source of the contamination.

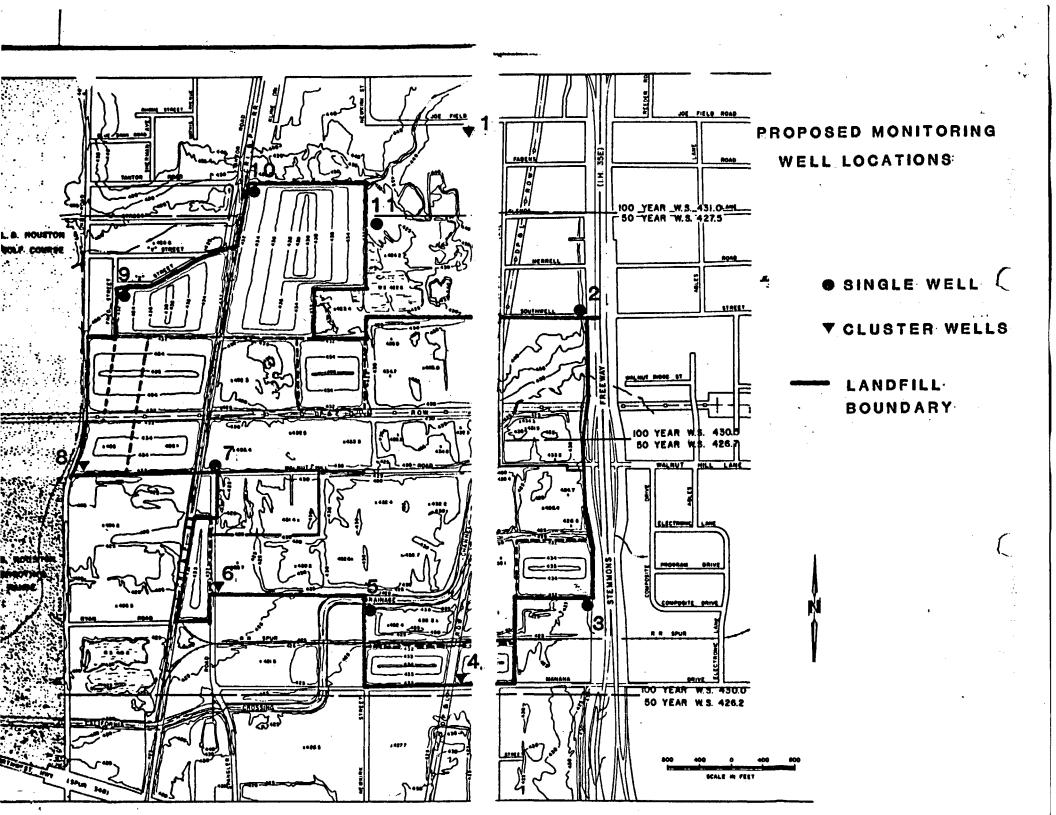
Based on the analytical data and on-site observations, the FIT makes the following recommendations:

- 1) The proposed groundwater monitoring well plan (attached) should be implemented immediately to check for groundwater contamination.
- 2) After installation and initial sampling of the wells, a yearly sampling program should be instituted.

Since the landfill is in a growth area, the yearly monitoring plan will help assess the impact of any changes or development in or near the landfill as it applies to the groundwater.

- 3) Maintenance of the landfill cap (i.e. filling the erosion gullies), should be accomplished to insure that run-off water does not contact the fill material in the landfill.
- 4) Since the level of contaminants in the surface samples taken is relatively low, the need for any additional surface sampling should be assessed after the groundwater results are evaluated.

Sample Station	Description
01	Immediately north of Joe Field Rd. at stream crossing. Approximately 30 feet north of road in stream ravine.
03	Erosion path at NW corner of site east of Station 04 approximately 30 feet east of railroad tracks.
04	"W" street at Tantor Rd. on east side of road at culvert.
05	South side of California Crossing on west side of bridge under Malibu Lane.
06	Ditch on east side of Goodnight Lane at California Crossing.
07	Approximately 500 feet north of convergence of California Crossing and other stream.
08	20 feet west of culvert under I-35 Stemmons Frwy.
09	East side of dirt road beside culvert at the edge of the stream.
10	50 feet north of railroad bridge at California Crossing.
11	Off-site on west side of landfill at the projected intersection of Walnut Hill Rd. and Spangler Rd.
12	East side of Luna Rd. in ditch. At the projected intersection of Walnut Hill Rd. and Luna Rd.
13	East side of Spangler Rd., 30 feet from SW corner of property line.
14	Immediately north of Manana Rd., approximately 30 feet ESE of intersection with Newkirk St.
15	Off-site at SE corner of property at edge of pond.



CASE N	IUMBER:	4166			
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SITE NAME/CODE Walnut Hill Landfill TX10154

	.					CONCENTR		(ppm)			Ambient Bac			
	EPA Sample Numbers													
PARAMETER	MFA065	MFA017	MFA016	MFA078	MFA076	MFA077	MFA075	MEA074	MFA070	MFA068	Western U.S. 2.	Eastern U.S. 2.		
Matrix Type	Soil	Soil	Soi 1	Soil	Soil	Soil	Soil	Soil	Soil	Soi1	Soil	Soil		
Aluminum	9174	11,152	10.821	2447	3303	5795	7554	9489	14.300	2988	58,000	33,000		
Antimony R	71/4	111111	10.021	7447	<u> </u>		-/-/-J	1 7407	22 A S S S S S S S S S S S S S S S S S S	2 300	.47	.52		
Arsenic			 		- 						5.5	4.8		
Barium	85	45	92	51	33	60	.65	179	85	33	580	290		
Beryllium	1.1	1.2	1.4	0.4	0.7	0.7	1.1	1.3	1.1	0.7	0.68	0.55		
Cadmium			1.3	* ;	7.					3.0	₹1	₹1		
	15	25	26	14	13	12	22	29	21	12	41	33		
Cobalt	4	11	8	4	5	5	9	10	6	6	7.1	5.9		
Copper	7	14	11	49	9	10	22	70	7	4	21	13		
Iron	11.795	30.841	27.714	12789	15.256	12107	27.466	26.698	17.415	15,551	21,000	14,000		
Lead	20.5	6.7	17.9	154 *E	13.4	36.1	133 E*	400 E*	9.2	15.9	17	14		
Manganese	163	205	503	216	237	228	366	280	219	252 -	380	260		
Mercury									,	•	0.046	0.081		
Nickel		23	21				18	29			15	11		
Selenium R											.23	.30		
Silver			2	20.5				1.9			-	_		
Thallium											9.1	7.7		
Tin											.90	.96		
Vanadium	25.9	22.7	36.4	15.9	23.7	16.1	30.7	32.4	26.5	17.2	70	43		
Zinc	48	92	58	114	47	73	116	359	51	44	55	40		
Cyanide	1 2]				7		
Calcium	12,402	18.500	104,929	94.535	18.896	20.336	79.054	36,948	14.877	7507				
Magneoium	1282	5097	2518	1084	673	1323	1702	2526	3116	667				
Potassium	2175	3554	2241	516	836	1842	1714	2948	3115	1795				
Sodium_	736	838	871	782	626	305	696	1234	1218	569				
Station No.	01	03	04	05	06	07	00	00	10_	11	1. Values	obtained from		
	36'N.OF JOE FIELD RD- AT STREAM	30'E.OFR.R TRACK E.OF STAF-4	TENTOR ON	W.OF MALIBU LN. OCALIF. CROSSING	E.OF GOOD- NIGHT LANE +CALIF. CROSSING	E.SIPE CALIF. CROSSING, CANAL 500	W.OF CULVERT STREAM CROSSING	E.SIDE CULVERT DIRT ROND CROSSING	CALIF. CROSSING DRAINAGE 50'N.OF	ENTERSECTION WAL- NUT HILL 4 SPANGLER	"Element Co Soils and C Materials o	ncentrations Other Surface of the Conter-		
Location	٠,		<u> </u>	cà nal bridge	CANAL	N.OF CONVERGENCE	L35	STREAM	R.R.BRIDGE	4.SPANGLER	minous Unit	ed States",		

E-indicates a value estimated or not reported due to the presence of interference

R-spike sample recovery is not within control limits *-duplicate analysis is not within control limits

Materials of the Conterminous United States", dated 1984. U.S.G.S. Professional Paper 1270.

^{2.} Reference for East/West Division is the 96°W longitudinal line which bisects Region VI.

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CASE NUMBER: 4166

SITE NAME/CODE: Walnut Hill Landfill

TX10154

		•			EPA Sam	ple Numbe	rs				Ambient Bac	kground 1.
PARAMETER	WEA067	WEAG14	WE 4 0 7 2	WE 4 0 7 2							Western U.S. 2.	Eastern U.S. 2.
	MFA067 Soil	Soil	MFA072 Soil	MFAU/3 Soil		 			+	 	Soil	Soil
Aluminum	6932	2381	2124	3068	 	 		+	+	 	58,000	33,000
Antimony R	0932	2301	2124	3008	 	 	 	- 		 	.47	.52
Arsenic R		 	<u> </u>		 	 		 	+	 	5.5	4.8
	70	19	38	26	<u> </u>	 	 		+	 	580	290
	0.9	0.5	0.4	0.7	 	 			 	 	0.68	0.55
Cadmium	1.0	1-0.3	19.	0.7		 	 	 	+	 	√1 <1	<u>√1</u>
	19	9	12	8		 			 		41	33
Cobalt	5	 ''	+	_0	 	 	 		+	 	7:1	5.9
Copper	7	2	5	2	 	 		+	 	 	21	13
Iron	17,418	11,624		12,647		 			 	-	21,000	14,000
Lead	51 E*		10236 103 E*	17.3	 		 		 		17	14
Manganese	324	185	231	94		 		-	 		380	260
Mercury	324	103	231	94		 	 	-	+		0.046	0.081
Nickel		 				 	ļ	+	 		15	11
Selenium	 -	 			 		 	 	 		.23	.30
Silver	1.4	 			 	┽┈┈	 	+	†		-	-
Thallium	1.4	 			 	+			 		9.1	7.7
Tin		ļ				 		+	-		.90	.96
Vanadium	22.8	12.9	12.6	13.5		 			 		70	43
Zinc	66	28	97	42					 		55	40
Cyanide	00	- 4.0	3/	42	ļ	 	 		 			1
Calcium	75,274	13,919	90 258	7447		 	 	 	†		 	
Magnesium	1856	507	1694	626		 		 	†	 	1	
Potassium	1988	1164	754	1370			 	†	†			
Sodium	818	497	448	612		 			1	 		
Station No.	1.2	12	1.4	15		 		-	†	 	1. Values	obtained from
Sample Station Location	PROJECTED INTERSECTION WALNUT KILL PLUNA	30'FROM S.W.CORNER PROPERTY	N.OF MANANA RO 30'E.OF NEWKIKK RO.	EDGE OF POND S.E.					,		"Element Co	ncentrations ther Surface f the Contes ed States",

interference

R-spike sample recovery is not within control limits *-duplicate analysis is not within control limits

Professional Paper 1270. 2. Reference for East/West Division is the 96°W longitudinal line which bisects

Region VI.

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CASE NUMBER: 4166

SITE NAME/CODE: Walnut Hill Landfill

TX10154

						CONCENTE	LATIONS ((ррь)		•	
					EPA Sam	ple Numbe	rs			Ambient Bac	kground 1.
			1	1		1	1	1		Western	Eastern
PARAMETER	ľ	1	}		j			1]	U.S. 2.	U.S. 2.
	MFA066	MFA015	MFA083	MFA081	MFA082	MFA071	MFAQ69	MFA080		1	
Matrix Type	Water	Water	Water	Water	Water	Water	Water	Water		Soil	Soil
Aluminum	712	664	2519	23,950	179	604				58,000	33,000
Antimony										.47	.52
Arsenic				11						5.5	4.8
Befrium	46	38	93	412	92	207			,	580	290
Beryllium				2.3						0.68	0.55
Cadmium										<1	<1
Chromium	11	7	9	51		4	7	2		41	33 ·
Cobalt				21						7.1	5.9
Copper	8	4	144	102	5		82	5		21	13
Iron	7.46	1309	3447	45.590	587	1088	27	111		21,000	14,000
Lead	6.6		92*	277*						17	14
Manganese	74	132	263	1362	206	231	2	3		380	260
Mercury										0.046	0.081
Nickel			•	49						15	11
Selenium										.23	.30
Silver	4.2		1	7.9			6.6			-	-
Thallium										9.1	7.7
Tin										.90	.96
Vanadium	10.5	8.6	7.3	65.5		1	5.1			70	43
Zinc	208	15	106	407	14	18	77	32		55	40
Cyanide R											
Calcium	70,730	26,290	134,200	221.400	87.460	126/20	0126 91	469			
Magnesium	3330	2780	8562	18.450		21,330					
Potassium	4623	5774	6724		11.950	25,420					
Sodium	46,600		102,300			201:00		1412			
Station No.	01	04	0.5	0.7	امع	010	16	1.7		1. Values	obtained from
	30 N.OF	W ST AT	WAF	E.SIPE	W.OF		RINSATE	RINSATE		"Element Co	ncentrations
	JOE FIELD	TENTOR RD.	MALIBULN. CCALIF. CROSSING	CRASSING	CULVERT	DRAINAGE	BLANK	BLANK	İ	Soils and O	ther Surface
Sample Station	RD-AT STREAM	E.OF ROAD	CROSSING	CROSSING CANAL 500	CROSSING	CANAL SE			1	Materials o	f the Conter-
Location		, ļ .	BRIDGE	N.OF CONVERGENCE	I35	BRIDGE				minous Unit	ed States",
	F-india	atos a r						to the	resence of	dated 1984.	U.S.G.S.

E-indicates a value estimated or not reported due to the presence of interference

R-spike sample recovery is not within control limits *-duplicate analysis is not within control limits

Professional Paper 1270.

2. Reference for East/West Division is the 96°W longitudinal line which bisects Region VI.

Table II: ORGANIC ANALYSIS SUMMARY Site Name/Code Walnut Hill LF Concentration pp.8 Page 1 of 5 Case Number 4166 TX10154 Sample Station Number and 01 03 05 07 09 k o Location Scani Fraction. No. /Class FB285 Compound FB284 FB237 FR297 FR295 FR296 FR294 FR293 EPA SAMPLE NUMBER MATRIX Soil SOIL SOIL SOIL SOIL SOIL SOIL SOIL Sell VOA/1 6 B Methylene chloride 12 B 10 B 5 B 4J B 8 B <u>5.7 B | 10.1 B | 5.7 B</u> Tetra chieso ethene VOA/1 13 Acetone VOA/2 23 B Toluene VOA/1 Benzene VOA/1 5.I Chloroform YOA/1 Diethyl phthalate ABN/1 ABN/1 179JB 274JB 239JB 250JB 84JB Di-n-butyl phthalate 73JB Bis(2-ethyl hexyl) phthalateABN/1 106JB 575JB 2229J 15.000BL40JB 164JB Di-n-octvl phthalate ABN/1 Fluoranthene 933 221J 1200 ABN/1 117J 1500 9800 Pyrene ABN/1 76J 1101 2100 243J 1260 16.000 Benzoicacid ABN/1 4-chloro-3-methyl phenol ABN/1 Acenaphthylene ABN/1 Acenaphthene 280J ABN/1 Fluorene 730J ABN/1 6700 Phenanthrene ABN/1 590 440J Benzo (a) anthrace/# ABN/1 353J ABN/1 516 7100 Chrysene Benzo (b) anthracene ABN/1 Benzp (k) anthracene ABN/1 Benzo (a) pygene ABN/L Butyl benzyl phthalate ABN/1 naphthalene ABN/1 1305 Beta-BHC Pest/1 70J 140 Endosulfan Pest/1 23 4.4'-DDT Pest/1 Agoclar 1254 Pest/1 Chlordane Pest/l 330J Silane VOA/3 60J 4-hydroxy-4-methy1-2pentarioheann/3 | 9300j8 5000j86700j8 | 7800j86300j8 | 44,000,8 | 33,000j8 | 55,000j8 | 88,000j8 Unknown 334 ABN/3 720JB P B 780JB 550JB | 750JB | PB Unknown 245 ABN/3 PB 390JB PB PB. 4-methyl-2-pentanone 550JB 4300JB PR. PR 2-cyclohexen-1-one 452 ABN/3 PB PR. PB PB Unknown 299 ABN/3 PB Alkane 2025 ABN/3 490J 2855 ABN/3 Unknown 620J Ethyl cyclobutane 292 ABN/3 440J 2033 ABN/3 1100J 8600J Alkene 1300J 10001 840J 1400.1 Alkene 2042 ABN/3 720J 2078 ABN/3 Alkene 850J 2126 ABN/3 5500J 4300J Alkene 2143 ABN/3 1540J Alkene

Alkene I. Priority Pollutant.

3. Tentatively Identified.

Alkene

2. Specif ed Hazardous Substance.

2152 ABN/3

2161 ABn/3

VOA - Volatile ABN - Acid Base/Neutral

1720J

720J

3200J

" ata-

1000J

Pest - Pesticide

B - The analyte is found in the lab blank.

J - Indicates an estimated value for tentatively identified compounds or for compounds found below detection limit.

P - Present in sample, but not reported by lab.

4/12.35 Table II: ORGANIC ANALYSIS SUMMARY Site Name/Code Walnut Hill LF Concentration pp. Page 2 of 5 Case Number 4166 TX10154 Sample Station Number and 01 03 104 05 07 80 09 h O Location Scan Fraction No. /Class FB285 | FB284 | FB237 FB297 FB295 FB296 FB294 FB293 Compound FB235 EPA SAMPLE NUMBER MATRIX 9014 SOIL 301L SOIL SOIL SOIL SOIL 5014 SOIL Alkene 2178 ABN/3 1400J 4500J 2213 ABN/3 670J_ I.0044 Alkene 11001 2483 ABN/3 Alkene Alkene 2601 ABN/3 1500J | 3500J 1100.1 2500.1 Alkene 2955 ABN/3 1.008 295 ABN/3 720.I Alkene 2087 ABN/3 7300J Alkene 2000J 3800J Alkene 2396 ABN/3 Alkene 720J 2492 ABN/3 6400J Alkene 2501 ABn/3 6500J Alkene 3800J 2519 ABN/3 Alkene 2619 ABN/3 4100J 2628 ABN/3 4700J Alkene Alkene 2594 ABN/3 1200J 1934 ABN/3 5600J Alkene Alkane 2070 ABN/3 3800J 4500J Alkane 2441 ABN/3 1600J 2300J Alkane 1700J 10.00J 5700J 940 J 2449 ABN/3 Alkane 1226 ABN/3 550J Alkane 1653 ABN/3 2100J Alkane 1924 ABN/3 1400J Alkane 478 ABN/3 11005 Alkane 547 ABN/3 13005 Alkane 583 ABN/3 25005 Alkane 627 ABN/3 9205 Alkane 909 ABN/3 8905 Alkane 1072 ABN/3 1300J Alkane 1110 ABN/3 10005 Alkane 1500 ABN/3 58005 Alkane 2103 ABN/3 280005 Alkane 2484 ABN/3 21.0005 Unknown 2170 ABN/3 2400J 2400J 2800J Unknown 330 ABN/3 2350J 1600J 3100J Unknown 438 ABN/3 2000J 1600J Unknown 308 ABN/3 2100J 590J Fluoro phenol 332 ABN/3 1300J Phthalate 1705 ABN/3 4100J 1490 ABN/3 Aldehyde 620J 970.I 1610 ABN/3 1700J 2000J Aldehyde 2612 ABN/3 Alcohol 1400J -methyl ethane thioic acid 275ABN/3 6000J Alcohol 1148 ABN/3 1.0038

1. Priority Pollutant.

Acid

Carbazole

Unknown PNA

Specif ed Hazardous Substance.
 Tentatively Identified.

1190 ABN/3

1276 ABN/3

1545 ABN/3

VOA - Volatile

ABN - Acid Base/Neutral Pest - Pesticide

1300J

11001

1400J

B - The analyte is found in the lab blank.

J - Indicates an estimated value for tentatively identified compounds or for compounds found below detection limit.

P - Present in sample, but not reported by lab.

Table II: ORGANIC ANALYSIS SUMMARY
Case Number 4166

1				Table	11: OR	GANIC AN	ALYSIS SU	MMARY	_		4 -	_		
Site Name/Code	Walnut	H111 LF				Case	Number _4	166	Concen	tration	Pa <i>⊸t</i> _qq	ge <u>a</u> of	5	
	TX10154													
		į į												
Sample Station Number and Location	Fraction	11	12	13	14	15					5			
	/Class											1		1 1
EPA SAMPLE NUMBER	701033	18288	FRYD.	FRZ90	FR291	KRZ9Z								
HATRIX		Soil	SOIL	SOIL	SOIL	SOLL						 		<u> </u>
	VOA/1	-		5 R	5 R							 _ _		
Mathylene Chloride Tetra chloro ethene	VOA/I	n n	/ K	3 K	3 B	/_5_						l		
Acetone	VOA/2	208	23R									 		l
Toluene	VOA/1	730	-/36		2.1						 			
Benzene	VOA/1	1									·			
Chloroform	VOA/1													
Diethyl phthalate	ABN/1				,	44.1						 		
Di-n-butyl phthalate		268.18		7.2.1B	41.IR	427.IB						 		
Bis (2-ethyl hexyl)phthalate		107.JB				7.7 .TR								
Di-n-octvl phthalate	ABN/1	1111111				70.T						 		
Fluroanthene	ABN/1	88.I	2100			96.1						 		
Pyrene		63.I	1700			64.J								
Benzoic acid	ABN/2	P.34	1.008			114.1					·			
4-chloro-3-methyl phenol	ABN		22.I								i — —	·		
Acenaphthylene	ABN/1		24J								 			
Acenaphtways	ABN/1		46J											
Fluorene	ABN/1		76J											
Phenanthrene	ABn/l		990		83.J							i ————		
Benzo (a) anthracene	ABN/1		770			85J								
Chrysene	ABN/1		840			78J						1		
Benzo (b) fluoranthene	ABN/I		600										-	
Benzo (k) fluoranthene	ANB/1		630											
Benzo (a) pyrene	ABN/1		920	· · · · · · · · · · · · · · · · · ·										
Butyl benzyl phthalate	ABN/1					43J								
Naphthalene	ABN/1													
Beta-BHC	Pest/1				12									
Endosulfan I	Pest/l	1401												
4.4'-DDT	Pest/1	110												
Aroclor 125	Pest/1				300						<u> </u>			
Chlordane	Pest							·			ļ	<u> </u>		
-hydroxy-4-methyl-2-pentandh	BARN/3	8500.1B					-					ļ		
	ABN/3	PR			570.IR						 			
		2900.IR		P R	880B	640 R								
	ABN/3		P B											
		P_R_		P.R.	P.R	P_B								l
	ABN/3		4001								ļ			
	ABN/3		670J											
	ABN/3			380.1								 -		
· · · · · · · · · · · · · · · · · · ·	ABN/3		560J								ļ			
	ABN/3		760J		 							ļ		
	ABN/3		950J		 							 		
	ABN/3	 	790.1			 					 	 		-
	ABN/3	 	5101	1001	 	-					 	 		-
	ABN/3	1000:		400J	 						 	 		
	ABN/3	10001									 	 		├─── ┥
	ABN/3	2000J	6201			 					 	 		
1. Priority Pollutant.	ABN/3	VOA - VO	630J			8 - The	anal vte 1	s found i	n the Tab	hlank			·	
TO TOTAL TOTAL CONTROL		101 - 10						vee !						

Priority Pollutant.
 Specif ed Hazardous Substance.
 Tentatively Identified.

VOA - Volatile ABN - Acid Base/Neutral Pest - Pesticide

B - The analyte is found in the lab blank.
 J - Indicates an estimated value for tentatively identified compounds or for compounds found below detection limit.
 P - Present in sample, but not reported by lab.

4/16.00

Concentration pp_ Page 4 of 5 Site Name/Code Walnut Hill LF Case Number 4166 TX10154 11 12 13 14 15 Sample Station Number and Location Scan Fraction No. /Class FB288 FB287 FB290 FB291 FB292 Compound EPA SAMPLE NUMBER MATRIX Soil SOIL SOIL SOIL SOIL 1831 ABN/3 Alkane 610J Alkane 3037 ABN/3 470J Alkane 2027 ABN/3 380.I. Alkane 2410 ABN/3 2500.I Unknown 438 ABn/3 1200.1 13001 11001 18003 308 ARN/3 1900.1 Unknown Unknown 1526 ABN/3 1000J Unknown 287 ABN/3 700J 12001 Unknown 194 ABn/3 340J Unknown 505 ABN/3 Aldehyde 1023 ABN/3 450J Ethyl cyclobutane 292 ABN/3 580J

Table II: ORGANIC ANALYSIS SUMMARY

1. Priority Pollutant.

3. Tentatively Identified.

VOA - Volatile

ABN - Acid Base/Neutral Pest - Pesticide

^{2.} Specif ed Hazardous Substance.

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Table II: ORGANIC ANALYSIS SUMMARY												7/16.03		
Site Name/Code Walnut Hill LF Case Number 4166 Concentration pp Page 5 of 5														
3166 (10/16) 5566	TX1015					0000			QUILCI.		PP	96 01	_3_	
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Sample Station Number and		01	04	05	07	08	10	16	17					
Location	Ennadia			[ŀ	İ	ŀ	1	1					1
Scan	Fraction	E9204	PP 2 2 6	BA 726	P4726	2220	EB 2 2 4	22200	24727]
	/Class	F D Z O O	F B Z 3 G	FA/36	EA/33	1 2 3 0 0	FB234	FB289	PA/3/					
EPA SAMPLE NUMBER		Water				. 10.7504			4					
MATRIX								BLANK	BLANK					
Methylene chloride		6 B	6B.	7 B			6_8_	7_8	7B					
Chloroform	VOA/1			15	9	5.J					 			
1.1.1-trichloro ethane	YOA/1				 	-		 	5.1		 			
Tran-1,2-d1chloroethene	VOA/1 ABN/1	700	230	20.I	 	20J	5.J 75	 	 		 			
is(2-ethyl Hexyl)phthalate		090	£3U	 		20J	/	 			 			
N-nitroso diphenvl amine Silane 88	ABN/1 VOA/3				7.J	F114			 					
	VOA/3				7.1	 	 		 					
Trinitro methane 94	VOA/3	24.TR	34JB	19JB	7JB	39JB		31JB_	13JB		 			
	VOA/3		_4.7 M M		30J	 								
	VOA/3								35J					
	VOA/3	24J												
	ABN/3				33J				13J					
2,2'-oxybis-propane 660	ABN/3				19J				68J					
Phthalate 2051	ABN/3			29Ј										
Phthalate 2084	ABN/3			19J				18J						
1.2-dichloro cyclohexang618	ABN/3	13JB	12JB			12JB	11JB	22JB	11JB					
Unknown 306	ABN/3		15JB											
	ABN/3		10J	<u> </u>			<u> </u>							
	ABN/3	12J		<u> </u>		<u> </u>	<u> </u>							
Phthalate 1944	ABN/3							15J			ļ			
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1. Priority Pollutant.		VOA - VO	latile			R - The	analyte i	s found i	n the lab	blank.				

Priority Pollutant.
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ENVIRONMENTAL PROTECTION AGENCY Office of Enforcement

REGION 6

First International Bldg., 1201 Elm St.
Dallas, Texas 75270

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Office of Enforcement

CHAIN OF CUSTODY RECORD

REGION 6 First International Bldg., 1201 Elm St.
Dallas, Texas 75270

PROJ. I	NO. f	ROJEC	TNA	ME	, 1	11.	/ "22"/	1111	and the special				5,	7	7 ,	////	
TX 101	154	Dall	00	Cis	ly Jan	dtil	1-Waln	LT 14	NO.			/Q	Z\$0	670			
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		Dist	ributio	n: Or	iginal Acco	mpanies S	hipment; Copy t	o Coordinat	or Field Files							Low conc.	Soil (org.)

REGION 6

First International Bldg., 1201 Elm St.
Dallas, Texas 75270

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ENVIRONMENTAL PROTECTION AGENCY Office of Enforcement

REGION 6

First International Bldg., 1201 Elm St. Dallas, Texas 75270

CHAIN OF CUSTODY RECORD PROJ. NO. TX1064 Dallas City Landfill - Walnut Hill NO. SAMPLERS: (Signature) : Was Elule aleeChro REMARKS CON-**TAINERS** Traffic Form# STA. NO. DATE TIME STATION LOCATION Wistreet at lentor Koad, Eside TROMFAOIL Tag# 6-07611 4/10/25 9:59 or road 3' from culvert 04 6-07608 MFA015 MFA015 6-07606 301 E. of R.R. Track imm. E. of Station # 4 981 N. of Joe Field Rd. @ Stream Crossing MFAOIT 6-67631 MFA066 15 6-07624 1050 MFA 066 6-07614 Χ 1100 MFA 066 6-07615 1100 Intersection a walnut Hill and Spangler Roads MFA 068 6-07640 Projected intersection of Walnut #. 1 and Juna id. MFA 067 6-07458 Rinsate Blank 6-07633 MFA 069 Rinsoto Blank 6-07632 m = A 069 Date / Time Received by: (Signature)
4/10/85 / 1400 Federal Express Relinquished by: (Signa (ur)) Relinquished by: (Signature) Date / Time Received by: (Signature) Date / Time Date / Time Received by: (Signature) Received by: (Signature) Relinquished by: (Signature) Remarks 11# 429436420 Firb 11# 4166 Relinquished by: (Signature) Date / Time Date / Time Received for Laboratory by: (Signature) Low Concentration Soil +Water(ino) Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

ENVIRONMENTAL PROTECTION AGENCY Office of Enforcement

REGION 6

First International Bldg., 1201 Elm St.
Dallas, Texas 75270

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First International Bldg., 1201 Elm St.

Office of Enforcement **CHAIN OF CUSTODY RECORD** Dallas, Texas 75270 PROJ. NO. **PROJECT NAME** Dallas Cty Landfill-Walnut Hill TX10154 NO. Mir Elle alee Chron SAMPLERS: (Signature) OF REMARKS CON-**TAINERS** STATION LOCATION STA. NO. DATE TIME W Street at Tentor Kood 2. Silegroad 3' from culvert Tay 76-07613 TRN FB237 9:50 4:50-6-07612 6-07609 6-07609-KS. 9:50 × 11 9:59 30'E. Of R.R. Track imme. E. 6-07637 2 FB 284 63 of Station #4 6.07630 63 10:40 6-07629 301 N. of Joe Field Rd @ Stream Crowling 6-07622 FB 285 "5 01 7050 D 6-07625 1.7 1100 1050 0 6-07626 1.1 1100 Intersection of Walnut Hill and Spanglet Road 1/0/85 1135 6-074566-07454 FB288 1140 6-07455 1 (6-07453 6-07460 6-07461 Walnut Hill of Luna Bad FB 287 à 1200 6-07459 .11 11 Date / Time Received by: (Signature) Relinquished by: (Signature) Date / Time Received by: (Signature) alcee Chris Relinquished by: (Signature) Date / Time Received by: (Signature) Relinquished by: (Signature) Date / Time Received by: (Signature) Airbill # 42 9436442 Relinquished by: (Signature) Date / Time Received for Laboratory by: Date / Time (Signature) Case # 4/64 Low concentration Soil

Distribution: Original Accompanies Shipment: Copy to Coordinator Field Files

6 - 5592

REGION 6

First International Bldg., 1201 Elm St.

CHAIN OF CUSTODY RECORD

Dallas, Texas 75270 TX10154 Dallas City Landfill-Walnut Hill NO SAMPLERS: (Signature) OF alce Chriss REMARKS CON-**TAINERS** DATE TIME STATION LOCATION STA NO. WST. at lentor Road, E. side 9-07604 6-0760F 2 FB 234 a road 3' from culvert. 9:50-6-07601 6-07602 2 6-076036-07605 30 N. of Sheam Crossing 6-07619 6-07618 FB 286 2 6-07621 6-07620 1100 1000 $\boldsymbol{\mathcal{Z}}$ 6-07617 6-07616 1 (4/10/2 1230 FB 289 Rinsate Blank 6-07639 6-07638 $\bar{\mathsf{X}}$ 4/10/15 1230 a 6-07636 6-07634 1/0/00 1230 6-07635 6-67639 Relinquished by: (Signature)

Alue Chris Date / Time Received by: (Signature) Relinquished by: (Signature) Date / Time Received by: (Signature) Date / Time Received by: (Signature) Relinquished by: (Signature) Date / Time Received by: (Signature) Relinquished by: (Signature) Remarks bill # 429436431 Case # 4166 Low Concentration Water Date / Time Received for Laboratory by: Date / Time (Signature) Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

REGION 6

First International Bldg., 1201 Elm St.
Dallas, Texas 75270

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10	1/11/25	0940		X	Galit.	xing K	Drainage cane C.R. Bridge		2	X	X	墨	۷5			TRIU MF.	4071	128 6-07979	7475
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<u>)</u> /3	4/11/85	1000		X	30, F	2 5pa	maler KL.	70/4	/			X				MFI	9014	6-07464	
14	4/11/95	0905-		X	Ninge	Manar	m w/ Wowk	13t.	1			X				MFA	1072	6-07#81	
06	4/1/85			X	call ci	priopor	canal		1		<i>></i> ≈4.	X				MFA	7074	6-07489	
08	1/1/85	1135		Y	Strea	m ur	t for other der = 35		/			X				MEX	+075	6-07504	
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65	4/11/85	1256-		X	Can Re	nalibul bridg	₹1. © (2. Y	""J]			X				MFA	678	6-0757-1	
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Office of Enforcement

CHAIN OF CUSTODY RECORD

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TY 1015							, Walnut Hill	NO.	1			3/7		17		
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STA. NO.	DATE	TIME	COMP.	GRAB			N LOCATION	TAINERS	/c			7				
10	4/1/85	0940		X	50'N	of Re	R. Bridge	1	X						FB 235	6207467
10		0928-		X		0 ,		1		X		_			i /	6-07468
	4/11/85	0928-		Y		10		2			X				, (4-07470,6-07471
/3	9/11/85	1000		X	301 F	rom S. Spar	afor Rd.	1	X						FB 290	6-07462
13	4/11/85	1350		X	0	1'	0	,		X					//	6-07463
13	4/11/15	0955-		X		11	_	2			X				11	6-07465, 6-07466
14	4/11/85	0905-		X	N.D.	hanan	~ 8d. 30 12 B ~ with NowKirkst.	1	X						FB 291	6-07480
14	4/11/85	0905-	7.	X		.()		1		X					: 1	6-67482
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06	41.185	1240-		Y	€. 86	acodni	resing Canal	1	X						FB 295	6-07490
06	4/11/85	1240-		Y		11	0	1		X					(,	6-07491
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Δ8	41.185	1135	-	X	W. B	Culv	der 735.	1	X		-		`		FB 294	6-07505
A8 8	11482	1135		X		11		ı		X					(1	6-07506
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Relinquished by: (Signature) Date / Time Received for Laborator (Signature)					y by:		Date	Tin	ne	Re	emark /	For Bill # 6	129436464 in Soil org.			
<i>(</i> 4	4	» Distr	ibutio	n: Ori	iginal Accor	mpanies Si	nipment; Copy to Coordinat	or Field Files					·	1	ow concentrati	in Svil org.
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ENVIRONMENTAL PROTECTION AGENCY Office of Enforcement

REGION 6

First International Bldg., 1201 Elm St.

CHAIN OF CUSTODY RECORD Dallas, Texas 75270 PROJECT NAME PROJ. NO. DALLAS CATY LANDFILL, WALNUT HILL SAMPLERS: (Signature) allee Chriss & WW & NO. OF REMARKS CON-**TAINERS** GRAB TIME STA. NO. DATE STATION LOCATION 0940 6-07485 10 2 North of Railroad bridge 6-07486 30 from S.W. corhard F. Broperty Cast of Spangler Ed.

N. of Mahana ICA. 30 E. of
intersect. M with New K. P. Rd.
E. 5 de of Cal. crossing Emal 500

N. of corner gruce with other stream
w. of cultert for other stream
under I35 1000 6-07488 0965 6-07487 0913 1100 6-07587 X 6-07588 Χ 1125-6-07585 6-07584 08 1135 Edge of ponde S. E. proper to 15 6-07558 Westy Mal. by Inco Cal.

E. of Goodn. tel Jane 12

Cal. Orsoing 05 6-07590 \$ 305 6-67591 2 6-07589 06 Received by: (Signature) Date / Time Relinquished by: (Signature) Relinquished by: (Signature) Date / Time Received by: (Signature) Monaed O Received by: (Signatura) Relinquished by: (Signature) Date / Time Relinquished by: (Signeture) Date / Time Received by: (Signature) Relinquished by: (Signature) Received for Laboratory by: Date / Time Date / Time Remarks (Signature) Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VI

1201 ELM STREET DALLAS, TEXAS 73270

4/11/85 (Date)

RECEIPT FOR SAMPLES

NAME AND TITLE OF EPA REPRESENTATIVE: Hunt Chapman

FIT Chemist Hunt Chapman

(Signature)

SAMPLES COLLECTED:

				•		
	SAMPLE Number	TIME	PLACE COLLECTED	TYPE	VOLUME	SPLIT SAMPLE REQUESTED PROVIDED
Ty	6-07485	0940	Station #10		500ml	500nl - 500 ml
	6-07486	0928 -	station#10		40ml	40m0 - 40ml
		0965-	statim#13		40ml	40ml - 40ml -
	6-07487	0905-	statim#14		40 ml	40ml - 40ml -
	6-07588	<u>0913</u> 1035-	Stahm#7		500ml	
		<u>1100</u>	Stanm+7			500ml / 500ml
	6-67587	1125-		<u>31:1</u>	40ml	40ml - 40ml -
	6-07584	1135	Station #8		40ml	40ml 40ml- 500ml 500ml-
	6-67585	<u>1135</u> 1116	Statin#8		500nl	
	6-07558	115	Statin#15	0011.	Yord	40ml - 40ml

ACKNOWLEDGEMENT OF FACILITY REPRESENTATIVE

The undersigned acknowledges that the samples described above have been collected.

NAME, TITLE AND ADDRESS OF FACILITY REPRESENTATIVE:

tonaus (Signature)

4/1/85 (Date)

DISTRIBUTION:

One copy facility representative One copy for inspector's records Original to Regional Office

UNITED STATES ENVIRONMENTAL PROT	TECTION AGENCY
4. 9, 1985	RECEIVED EPA REGIGN VI.
ential Hazardous Waste Site	1985 SEP 17 AM 10: 21
th Bradley, FIT RPO rdous Waste Section (6ES-SH)	MAKETA CHEFTERUS
ha McKee, Chief	
	Hill
it No.: TX 10154 TXD 98 No.: (26-8502 -39	80 623 193
Deliverables:	REF IN SA Vol. 1
 Preliminary Assessment (Form 2070-2) Site Inspection Report (Form 2070-3) Sampling Inspection Report Other: 	attached () attached () attached () attached ()
Were drinking water wells sampled?	Yes () No ()
Analytical Data:	
 None collected Field data Contract lab results Houston lab results 	attached ()
Comments: Interior mere deter	tel in the
it not mates pamples at	twied by FET.
IT recomende that.	a gron fræte
initioning explana be	replemented at
ourswates continuation	
	SUPERFUND FILE
circle) Cabra 6W-M ==	JUN 2 4 1992
	Intial Hazardous Waste Size Intial Hazardous

-4 Ferm 1320-6 (Rev. 3-76)



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VI 1201 ELM STREET

DALLAS, TEXAS 75270

RECEIPT	FOR SAMPLES							
NAME AND TITLE OF EPA REPRES	SENTATIVE: Hun.	+ Chapman						
		-Chimist.						
	Hunt	Chaman						
	•	(Signature)						
SAMPLES COLLECTED:		•						
SAMPLE PLACE NUMBER TIME COLLECTED	TYPE VOLUME	SPLIT SAMPLE REQUESTED PROVIDE						
6-07591 1705 Station #05	Water Sooml	soonl soonl						
4-07590 1308 Statim#05	Soil yong	yong you						
6-07589 1240 Station=#06	Soil Your	40nl 40nl						
								
		 						
	•							
<u>ACRNOWLEDGEMENT</u>	OF FACILITY REPRESEN	TATIVE						
The undersigned acknowledges been collected.	s that the samples d	escribed above have						
NAME, TITLE AND ADDRESS OF FACILITY REPRESENTATIVE:								
	·							
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Honore & 4/11/6-								
(Signature)		(Date)						
DISTRIBUTION: One conv. facility representative								

One copy facility representative One copy for inspector's records Original to Regional Office

TX 10154



California Analytical Laboratories, Inc. 2544 Industrial Boulevard • West Sacramento, CA 95691 • (916) 372-1393

U.S. EPA Contract Laboratory Program

Sample Management Office

P.O. Box 818--Alexandria, VA 22313 703/557-2490 FTS: 8-557-2490

REPORTED: 6/14/85

Received: 4/11/85 4/12/85

Q.C. Report No.:

COVER PAGE INORGANIC ANALYSES DATA PACKAGE

Lab Name: California Analytical Labs, Inc.

Case No.:

4166 4166

SOW No.: 784

Contract No.: 68-01-6810

Sample Numbers

EPA	No.	Lab ID	No. EPA	No.	Lab ID	No.
MFA015		P2501	MFA066		P2502	
MFA069	•	P2503	MFA016		P2504	
MFA017		P2505	MFA065		P2506	
MFA067		P2507	MFA068		P2508	
MFA014		P2509	MFA070		P2510	
MFA072		P2511	MFA073		P2512	
MFA074		P2513	MFA075	CERTIFICATION OF THE SECOND	P2514	
MFA076		P2515	MFA077		P2516	想被領域
MFA078	The state of the s	P2517	MFA071		P2518	, K. S.
MFA080		P2519	MFA081		P2520	्रेड्ड -
MFA082		P2521	MFA083		P2522	
	**	and the second second		and the contract of the contra		

ICP Interelement and background corrections applied? Corrections applied before generation of raw data. FOOTNOTES:

NR - not required by contract at this time

Value - If the result is a value greater than or equal to the instrument detection limit but less than the contract required detection limit, report the value in brackets (ie.[10]).

Indicate the analytical method used with P (for ICP/Flame AA),

F (for furnace), or CV (for cold vapor).

U - Indicates element was analyzed for but not detected. Report with

the detection limit value (e.g., <10U). Indicates a value estimated or not reported due to the presence of

interference. Explanatory note included on cover page. Indicates value determined by Method of Standard Addition.

Indicates spike sample recovery is not within control limits.

Indicates duplicate analysis is not within control limits.

Indicates the correlation coefficient for method of standard addition is less than 0.995.

TXD 980623193 Dallas City of LDPL-WALNUT HILL X REF INSAVOLI

SUPERFUND FILE

JUN 2 4 1992

REORGANIZED

Case No: 4166 REPORTED: 6/14/85

Page 2

COMMENTS: Bottles for sample MFA015 were labelled incorrectly when received by Cal Labs. The pH of the Task 3 bottle was about 5. Since Task 3 samples are preserved with NaOH the pH of this sample should have been about 12. The pH of the Task 1 & 2 bottle was about 12. Since Task 1 & 2 samples are preserved with HNO3 the pH of this sample should have been about 2. Obviously the Task 3 and Task 1 & 2 labels were reversed. Cal Labs relabelled, redigested and redistilled the correct samples.

The second calibration blank for the ICP run on 5/21/85 was 16 ppb high in Lead. Lead was rerun on the ICP on 6/7/85 for all samples not covered by AA data.

The serial dilution analysis for the low soil samples did not meet EPA requirements (SOW 784, D-32.5) for Cr and Pb.

Anthony S. Wong, PhD

Vice President
Research and Analytica

Research and Analytical Services

1/3	,		TX 10154
	California Analytical Laborat 2544 Industrial Blvd. West Sacramento, CA 95691 (916) 372-1393	tories, Inc.	Order No P Nº 2501 Date Rec'd 4/11/85 09:15 Compl. Date Notebook
CUSTOMER	U.S. EPA-INORGANICS	(TOTAL METALS)	
ANALYSIS:		617 or 68-01-6810 or 6	8-01-6873
	CAL ID EPA ID	TAG NO SIZ 15 6-07608 11 6-07606 "	Le Analysis Le plastic bottle Tile 2 " CN=
	LOW WATER		
·	no. of bottles/jars_2 sample description: Sught bottle sealed: yes / no	y cloudy water ; tape offici	
	label on bottle (other than	preprinted label): No	
	packing information: (only of chain of custody record official seal on ice chain lieu of seal-tape interpretation: EPA I.D. and tag numbers other information: Samples Section Soilsin vermiculite.	rec'd: yes no est: yes no tect: yes no	is: yes no no wo ice sty in good con-
	1		
			BM= 4/11/85

	California Analytical Laboratories, Inc. 2544 Industrial Blvd. West Sacramento, CA 95691 (916) 372-1393	Order NoP Nº . 2502 Date Rec'd/11/85									
CUSTOMER	U.S. EPA-INORGANICS (TOTAL METALS)	S (TOTAL METALS)									
÷	CONTRACT NO. 68-01-6617 or 68-01-6810	CONTRACT NO. 68-01-6617 or 68-01-6810 or 68-01-6873									
ANALYSIS:	TASX $/$ & 2 , CN^2 case no. $4/66$ // CAL ID EPA ID TAG NO	SIZE Analysis									
	P2502-1 MFA066 6-07614	Il plastic bottle Tisz									
	<u>" -2 " 6-07615</u>	II - A CN-									
		official seal									
	label on bottle (other than preprinted label): No										
	packing information: (only on tirst lab ticked chain of custody record rec'd: yes official seal on ice chest: yes no in lieu of seal-tape intact: yes no EPA I.D. and tag numbers agree on all docother information:	; intact: yesno									
		· · · · · · · · · · · · · · · · · · ·									

BM= 4/11/85

	California Analytical Laborato 2544 Industrial Blvd. West Sacramento, CA 95691 (916) 372-1393	ories, Inc.	Date Rec'd. 4/11/85 09:15 Compl. Date Notebook
CUSTOMER	U.S. EPA-INORGANICS (TOTAL METALS)	
ANALYSIS:	CONTRACT NO. 68-01-66 TASK 1&2, CN=		8-01-6873
	TASK 1&2, CN= case no. 4/66 /1 CAL ID EPA ID P2503-1 MFA069	TAG NO SIZ 6-07633 12 6-07632	E Analysis plastic bettle
	no. of bottles/jars_2 versample description: Coppers Clear C	volume full volosless water	
	bottle sealed: yes / no label on bottle (other than p		al seal
	packing information: (only or chain of custody record of ficial seal on ice chain lieu of seal-tape into EPA I.D. and tag numbers other information:	st: yes no ect: yes no	; intact: yesno
		·	
		·	
		<u> </u>	

2503

Nº

Order No. _

	California Analytical Laboratories, Inc. 2544 Industrial Blvd. West Sacramento, CA 95691 (916) 372-1393	Date Rec'd. 4/11/85 09:15 Compl. Date
CUSTOMER	U.S. EPA-INORGANICS (TOTAL METALS)	
	CONTRACT NO. 68-01-6617 or 68-01-6810 or 68	3-01-6873
ANALYSIS:	TASK 1&2, CN= case no. 4/66 /1	
	CAL ID EPA ID TAG NO SIZI P2504 MFA016 6-07611 803	E Analysis clear gless jar
	LOW SOIL	
	no. of bottles/jars / volume full sample description: Appears mottled bt. brown to m water amt. on top bottle sealed: yes / no ; tape official label on bottle (other than preprinted label): No	
	packing information: (only on first lab ticket of chain of custody record rec'd: yes no official seal on ice chest: yes no in lieu of seal-tape intact: yes no EPA I.D. and tag numbers agree on all document other information:	; intact: yesno

Nº

BM= 4/11/85

P

Order No. _

2504

Date Rec'd. 4 California Analytical Laboratories, Inc. 2544 Industrial Blvd. Compl. Date__ West Sacramento, CA 95691 (916) 372-1393 Notebook __ U.S. EPA-INORGANICS (TOTAL METALS) CUSTOMER: CONTRACT NO. 68-01-6617 or 68-01-6810 or 68-01-6873 TASK / & 2, CN= ANALYSIS: case no. 4/66/ TAG NO P2505 MFA017 6-07631 LOW SOIL no. of bottles/jars_/__volume_80% sample description: Charcoal gray - loose, moist tape official seal bottle sealed: yes / no___ label on bottle (other than preprinted label): No packing information: (only on first lab ticket of the series) chain of custody record rec'd: yes ____ no___ ; intact: yes____no_ official seal on ice chest; yes no in lieu of seal-tape intect: yes____ no EPA I.D. and tag numbers agree on all documents: yes ______no__ other information:

. 2505

Order No.

1	2544 Industrial Blvd. West Sacramento, CA 95691 (916) 372-1393	Compl. Date
CUSTOMER:	U.S. EPA-INORGANICS (TOTAL METALS)	
	CONTRACT NO. 68-01-6617 or 68-01-6810	or 68-01-6873
ANALYSIS:	TASX 1&2, CN=	
	case no. 4/66	
	<u>CAL ID</u> <u>EPA ID</u> <u>TAG NO</u> <u>P2506 MFA065 6-0762</u>	SIZE Analysis Ams 803 clear glass jar
	LOW SOIL	
		official seal
	label on bottle (other than preprinted label): NO
	packing information: (only on first lab tick chain of custody record rec d: yes official seal on ice chest: yes no in lieu of seal-tape intect: yes no EPA I.D. and tag numbers agree on all do other information:	no; intact: yesno
	·	

California Analytical Laboratories, Inc.

2506

Order No. _

	California Analytical Laboratories 2544 Industrial Blvd. West Sacramento, CA 95691 (916) 372-1393	, Inc.	Order NoP Nº 2507 Date Rec'd///85
CUSTOMER	U.S. EPA-INORGANICS (TOTAL CONTRACT NO. 68-01-6617 or		3-01-6873
ANALYSIS:	no. of bottles/jars_/volumesample description: Appears mattled lt. Lip , solid		-
	packing information: (only on fir chain of custody record rec'd official seal on ice chest: y in lieu of seal-tape intact: EPA I.D. and tag numbers agree other information:	st lab ticket of yesno yesno	the series) _; intact: yesno

BMº 4/11/85

	2544 Industrial Blvd. West Sacramento, CA 95691 (916) 372-1393	Compl. Date
CUSTOMER:	U.S. EPA-INORGANICS (TOTAL METALS)	
	CONTRACT NO. 68-01-6617 or 68-01-6810	or 68-01-6873
ANALYSIS:	TASK 1&Z, CN=	
	case no. 4/66	
	CAL ID EPA ID TAG NO P2508 MFA068 6-07640	SIZE Analysis 803 clear) glass) jar)
	LOW SOIL	
	no. of bottles/jars / volume 95% sample description: Appears mottled lt. to m	ed brown, solid
	bottle sealed: yes no; tapelabel on bottle (other than preprinted label	official seal):No
	packing information: (only on first lab tick chain of custody record rec'd: yes	no
	in lieu of seal-tape intact: yes named to seal tag numbers agree on all do other information:	0

	*** **********************************	

2508

BM= 4/11/85

Nº

Order No. _

	California Analytical Laboratories 2544 Industrial Blvd. West Sacramento, CA 95691 (916) 372-1393	Inc.	Date Rec'd. 4-12-85 0950 Compl. Date Notebook
CUSTOMER	U.S. EPA-INORGANICS (TOTAL	METALS)	
	CONTRACT NO. 68-01-6617 or	68-01-6810 or 68	3-01-6873
ANALYSIS:	TASK 1 + 2, CN Q VA case no. 4166 CAL ID EPA ID P2509-V MFA 014 6		E Analysis LEXI GLESS JAC
	LON SOM		
	no. of bottles/jars / volume sample description:		
	bottle sealed: yes		al seal
		es no no no yes no all document	; intact: yesno s: yesno T W/O ICH IN S WELPPEN
		E	
		m_ 4/12	1 85

2509

Nº

Order No.

Order No.	P	Nº	2510	_
			5 0930	
Compl. Date				
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U.S. EPA-INORGANICS (TOTAL METALS)

CONTRACT NO. 68-01-6617 or 68-01-6810 or 68-01-6873

ANALYSIS:

TASK 142, CNEQUENT

case no. 4/66

CAL ID EPA ID TAG NO SIZE Analysis
P2510 MFA070 6-07469 802 CLECK GLC85 Jak
1 = 10 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
LOW SOIL
no. of bottles/jars volume for sample description: Appeals GRAGISH Som
sample description:
appeals GREGISH SOIL
bottle sealed: yes no; tape official seal
label on bottle (other than preprinted label):
Nove:
packing information: (only on first)ab ticket of the series)
chain of custody record recidings
chain of custody record rec d: yes no; intact: yes no;
in lieu of seal-tape intect+ ves no
EPA I.D. and tag numbers agree on all documents: yes no
other information:
,
ML 4-12-85

Order No	P	Nº	2511
Date Rec'd.	4	-12-8	15 0930
Compl. Date			
Notebook			

~	ISTOMER:	

U.S. EPA-INORGANICS (TOTAL METALS)

CONTRACT NO. 68-01-6617 or 68-01-6810 or 68-01-6873

ANALYSIS:

TASK 142, CJ QUALT

CALLED TO THE TO THE ADDITION OF THE ADDITION
P2511 MFA 072 6-07481 802 CLECK GLCS SIGE
P2511 MFA 072 6-07481 802 CLECK GLESSICK
10W 301H
no. of bottles/jars / volume 90 70
no. of bottles/ jars / volume / b
sample description: Ley Rendal
THE JOY JOHN
bottle sealed: yes no; tape official seal
label on bottle (other than preprinted label):
14
packing information: (only on first lab ticket of the series)
chain of custody record rec'd: yes no
chain of custody record rec'd: yes no; intact: yes no;
in lieu of seal-tape intect: yes no
EPA I.D. and tag numbers agree on all documents: yes no
other information:
m 4-17-85

Order No	P	Nº	2512	
Date Rec'd.	4-	12-85	5 0930	•
Compl. Date	·			
Notebook _		···		

\sim 1	ISTOMER.	

U.S. EPA-INORGANICS (TOTAL METALS)

CONTRACT NO. 68-01-6617 or 68-01-6810 or 68-01-6873

ANALYSIS:

TASK 142, CJ=QValt

case no. 4166

CAL ID	512 MFA 073 6-	TAG NO SIZE	Analysis	
175	12 MFA 173 6-	17499 BOZ CA	Bar Auss nl.	
122	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	01111 000	942-1-0	
+				
		•		
	,			
Low	5014			
no. of bot	tles/jars/volume	95%		
sample desc	ription:	101/	. 0	
app	ription: Eals Wet 4 GA	DEMISH COL	-0R/	
bottle seal	led: yes;	tapeofficial	seal	
Tabel on Do	ottle (other than prepri	nted label):	·	
	and a second second second second second second second second second second second second second second second			
packing inf	formation: (only of firs	t lab ticket of the	e series)	
chain c	of custody record rec'd:	yesno		
officia	al seal on ice chest: ye	s;	intact: yesno	
in Tieu	of seal-tape intect; y	esno		
	D. and tag numbers agree information:	on all documents:	yes 110	
other 1	furoragrion:			
,	· ·	· <u> </u>		
 				
				

Order No	P	$N_{\bar{0}}$	2513
Older No	4.	17-8	50930
Date Rec'd.		100	20120
Compl. Date			
Notebook			

CI.	ISTOMER:	

U.S. EPA-INORGANICS (TOTAL METALS)

CONTRACT NO. 68-01-6617 or 68-01-6810 or 68-01-6873

ANALYSIS:

TASK 142. CN=QValt

12513 mfA 014 6-07494 802 CHEUR GLESS JAR
2513 MFA D14 6-D7494 802 CHERRE GUESS ICR
12210 Million O VIII BURG 4235/100
LON SOIL
no. of bottles/jars/_volume900/0
sample description: Appeals Black & NET
appeals ruck & NET
bottle sealed: yes no; tape official seal
lobel on bottle (other than preprinted label):
label on bottle (other than preprinted label):
packing information: (only of first leb ticket of the series)
chain of custody record rec d: yes no; intact: yes no;
official seal on ice chest: yes no; intact: yes no
in lieu of seal-tape intact: yes no EPA I.D. and tag numbers agree on all documents: yes no
EPA I.D. and tag numbers agree on all documents: yes no
other information:

ML 4-12-85
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California Analytical Lab	oratories, inc
2544 Industrial Blvd.	
West Sacramento, CA 956	91
(916) 372-1393	•

Order No	P	Nº	., 2	2514	_
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Date Rec'd.		120.		0 /0	-
Compl. Date					-
Notebook					-

CUSTOMER:

U.S. EPA-INORGANICS (TOTAL METALS)

CONTRACT NO. 68-01-6617 or 68-01-6810 or 68-01-6873

ANALYSIS:

TASK 142, Cal Qualt

case no. 4166

CAL ID / EPA ID TAG NO / SIZE Analysis
DESITE MEADIS 6-07504 SIZE Analysis DESITE ANALYSIS
LON SOIL
no. of bottles/jars / volume 900/0
sample description;
no. of bottles/jars / volume 90% sample description:
bottle sealed: yes official seal
label on bottle (other than preprinted label):
packing information: (only on first lab ticket of the series)
chain of custody record record yes no ; intact: yes no ;
in lieu of seal-tape intect: yes no
in lieu of seal-tape intect: yes no EPA I.D. and tag numbers agree on all documents: yes no
other information:
#

ML 4-1285

Order No	P	Nº	. 2	515
Date Rec'd.	4	-12-5	35	0930
Compl. Date			<u> </u>	
Notebook				

CUSTOMER:

U.S. EPA-INORGANICS (TOTAL METALS)

CONTRACT NO. 68-01-6617 or 68-01-6810 or 68-01-6873

ANALYSIS:

TASK 142, CN DVANT

P2515 MFA 076 6-07489 BOZCHEAR GLESS JAR
\$2515 MFAD76 6-07489 BOZCHEAR GLESSIGE
LON SOIL
no. of bottles/jars / volume for /
sample description:
sample description: appeals halk
bottle sealed: yes no; tape official seal
label on bottle (other than preprinted label):
<u> </u>
packing information: (only on first lab ticket of the series)
chain of custody record rec'd: yes no
chain of custody record rec'd: yes no ; intact: yes no ; intact: yes no ;
in lieu of seal-tape Intect: yes no
EPA I.D. and tag numbers agree on all documents: yes no
other information:
ML 4-12-85

(916) 372-1393 Notebook ____ U.S. EPA-INORGANICS (TOTAL METALS) CUSTOMER: CONTRACT NO. 68-01-6617 or 68-01-6810 or 68-01-6873 TASK 142. CN QUANT ANALYSIS: case no. 4166 DN 50n no. of bottles/jars 2 volume function:

RITH affect NET + Great bottle sealed: yes
no ; tape official seal label on bottle (other than preprinted label): packing information: (only on first lab ticket of the series) chain of custody record rec'd: yes _____ no ____; intact: yes ____ no ____; in lieu of seal-tape intect: yes EPA I.D. and tag numbers agree on all documents: yes no other information:

ML 4-1285

California Analytical Laboratories, Inc.

2544 Industrial Blvd.

West Sacramento, CA 95691

Nº

Date Rec'd. 4-12-85 0930

Compl. Date_____

Order No. _

. 2516

other information:

Order No	P	Nº	2517	
		-12-	85 092	<u>So</u>
Compl. Date			 	
Notebook				

CUSTOMER:	U.S. EPA-INORGANICS (TOTAL METALS)
	CONTRACT NO. 68-01-6617 or 68-01-6810 or 68-01-6873
ANALYSIS:	TASK 142, CN= QUANT
	case no. 4166
	P2517 MFA 078 6-07571 802 CHECK GLASSIAL
	LEN SOIL
	no. of bottles/jars / volume 90%
	sample description:
	sample description: 4 Revive
	bottle sealed: yes no; tape official seal label op bottle (other than preprinted label):
	packing information: (only on first lab ticket of the series)
	chain of custody record rec d: yes no ; intact: yes no ;
	in lieu of seal-tape intect: yes no
	EPA I.D. and tag numbers agree on all documents: yes no

mr 4-12-85

Order No	P	Nº	2518
Date Rec'd.	4-	12-8.	5 0930
Compl. Date	·		
Notebook		**	

CUSTOMER:

U.S. EPA-INORGANICS (TOTAL METALS)

CONTRACT NO. 68-01-6617 or 68-01-6810 or 68-01-6873

ANALYSIS:

TASK 142, CN=QValt

P2518-1 MFADTI 6-D7474 12 DICETIC RTL TI42
11 -2 11 6-07475 IN CN-QUENT
LONNUTER
no. of bottles/jars 2 volume Pur
SOTH appear chouly water
bottle sealed: yes no ; tape official seal label on bottle (other than preprinted label):
packing information: (only on first lab ticket of the series) chain of custody record rec'd: yes no official seal on ice chest: yes no; intact: yes no in lieu of seal-tape intact: yes no EPA I.D. and tag numbers agree on all documents: yes no other information:
mL 4-12-95

Order No.	P		2519
Date Rec'd.	4	-12-8	50930
Compl. Date			
Notebook		·_··	

CUSTOMER:

U.S. EPA-INORGANICS (TOTAL METALS)

CONTRACT NO. 68-01-6617 or 68-01-6810 or 68-01-6873

ANALYSIS:

TASK 142, CN-QUANT
case no. 4166

CAL ID EPA ID TAG NO SIZE Analysis
P2519-1 MFA 080 6-07592 1 Q DIESTIC RIT /10-2
11-2 1 6-07593 1 11) Was
LOW Water
no. of bottles/jars 2 volume RVIII
no. of bottles/jars 2 volume full sample description: Afficial Cheur Water (BITH)
appeals Cheux water (RITH)
bottle sealed: yes no ; tape official seal
label on bottle (other than preprinted label): Rule
packing information: (only on first lab ticket of the series)
about of augradu magand magant yes no
official seal on ice chest: yes no; intact: yes no
in lieu of seal-tape intact: yes no
EPA I.D. and tag numbers agree on all documents: yes no other information:
other information:
m 4-12-85

Order No	P	Nº	2520	
Date Rec'd.	4	-12-	85 0930	2
Compl. Date				_
Notebook				_

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u	JOI	UII	NER.

U.S. EPA-INORGANICS (TOTAL METALS)

CONTRACT NO. 68-01-6617 or 68-01-6810 or 68-01-6873

ANALYSIS:

TASK 14-2, CN QUANT

CAL ID EPA ID TAG NO SIZE Analysis
72520-1 MF2 081 6-07552 10 picotic BTL 1142
11 -2 11 6-17553 11 CH*
LONNITE
no. of bottles/jars_2_ volume_for
no. of bottles/jars_Z_volume_full_ sample description: _RUTH_CAPPEAL_JULL_
bottle sealed: yes no; tape official seal
label on bottle (other than preprinted label):
packing information: (only on first lab ticket of the series)
chain of custody record rec d: yes no
in lieu of seal-tape intact: yes no EPA I.D. and tag numbers agree on all documents: yes no
other information:
m. 1/2.86

Order No	P			521	
Date Rec'd.	4	-12-	85	0930)
Compl. Date					-
Notebook		<u> </u>			-

CUSTOMER:

U.S. EPA-INORGANICS (TOTAL METALS)

CONTRACT NO. 68-01-6617 or 68-01-6810 or 68-01-6873

ANALYSIS:

TASX 142, CN = Q Vant

case no. 4/66

12571 1 44 (100) 1-17549 10 A COT OF TIGHT
72521-1 MFA 082 6-07509 1 D PLESTIL JTL TIAZ
$\frac{11-1}{2}$ $\frac{11}{11}$ $\frac{6-0/510}{6-0/510}$ $\frac{11}{11}$ $\frac{2}{11}$ $\frac{2M^2}{2M^2}$
•
LOW WATER
no. of bottles/jars 2 volume full
sample description: KOTH APPEAL CLEAR
JOHN APPEAL CRUMS
bottle sealed: yes v no ; tape official seal v
label on bottle (other than preprinted label):
label on bottle (other than preprinted label):
packing information: (only on first lab ticket of the series)
chain of custody record rec d: yes no
official seal on ice chest: yes no ; intact: yes no
in lieu of seal-tape intact: yes no
EPA I.D. and tag numbers agree on all documents: yes no
other information:

M- 4-1285

Order No	P	Nº	2522	
Date Rec'd.	4	-12-8	5 0930	_
Compl. Date			·	-
Notebook _				-

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	J.) I			

U.S. EPA-INORGANICS (TOTAL METALS)

CONTRACT NO. 68-01-6617 or 68-01-6810 or 68-01-6873

ANALYSIS:

TASK 142, CN= Q Vanter
case no. 4166

CAL ID EPA ID TAG NO SIZE Analysis
\$2522-1 mfA083 6-07576 12 plastic RTL TINZ
11-2 11 6-07577 1 1 2 $CLI=$
LONWOTER
no. of bottles/jars 2 volume for
no. of bottles/jars 2 volume full sample description: BOTH appear years ISH COLOR
bottle sealed: yes, tapeofficial seal label on bottle (other than preprinted label):
packing information: (only on first lab ticket of the series) chain of custody record rec d: yes no; intact: yes no;
in lieu of seal-tane littect: yes no ; intact: yes no
in lieu of seal-tape intect: yes no EPA I.D. and tag numbers agree on all documents: yes no other information:
m 4/12/85



Photographer / Witness

Chapman/Calhou

Date / Time / Direction

4/10/85 - 1002 - Facing Nt.
Comments: Station 04

Photo 1

Photographer / Witness

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Chapman/Colline
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4/10/85 - 1042 - Facing east
Comments: Station 03

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Photographer / Witness
Chapman / Callrow
Date / Time / Direction
4/10/85 - 1100 - Facing SSA
comments: Station 01
Photo 3



Photographer / Witness

Date / Time / Direction

Comments:
Photographer / Witness
Chapman / Callion
Date / Time / Direction
4/10/85-1142-Facing West
Comments: Station 11

Photo 4



Photographer / Witness
rhotographer / withess
Chapman / Calhon
Date / Time / Direction
4/10/85 - 1200 - Facing NE
comments: Station 12
Photo 5
Photographer / Witness

Date / Time / Direction

Comments:

Photographer / Witness
Chapman / Callin
Date / Time / Direction
4/4/85-0915-Facing west
Comments: Station 14
Photo 6



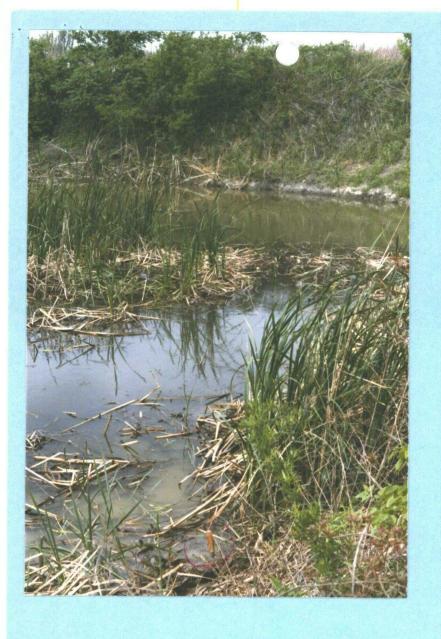
Photographer / Witness
Chapman / Callin
Date / Time / Direction
4/n/85-0942-Facing SSW
comments: Station 10
Photo 7

Photographer / Witness

Date / Time / Direction
Comments:

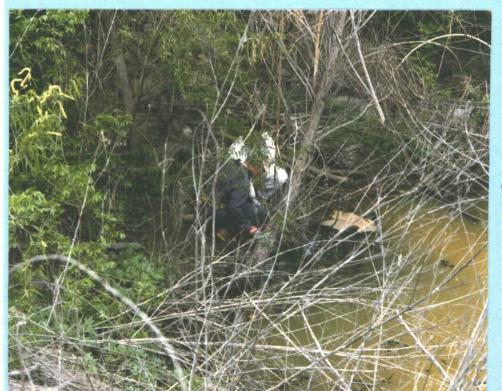


Photographer / Witness
Chapman / Callroun
Date / Time / Direction
4/11/85-1002-Facing NE
comments: Station 13
Photo 8

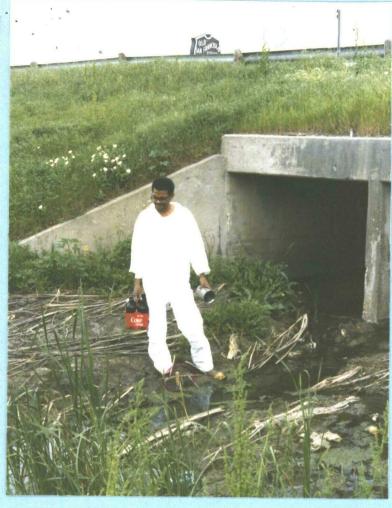


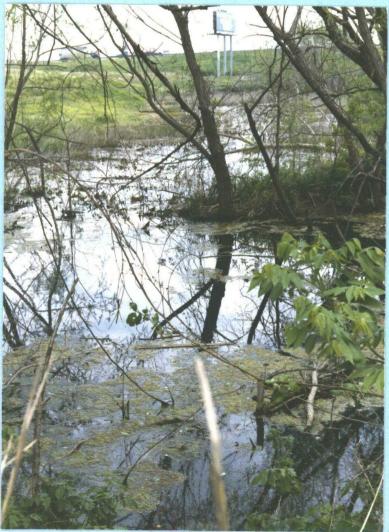
Photographer / Witness
Chapman / Callinu.
Date / Time / Direction
4/11/85 - 1100 - Facing East
comments: Station 07
Photo 9
Photographer / Witness
Date / Time / Direction

Comments:



Photographer / Witness
Chapman / Callion
Date / Time / Direction
4/11/85 - 1112 - Facing NW
Comments: Station 09
Photo 10





Photographer / Witness
Chapman / Calling
Date / Time / Direction
4/11/85-1135- Facing NE
Comments: Station 08
2100(10)
Photo 11
Photographer / Witness
Date / Time / Direction
Comments:
Photographer / Witness
Chapman / Callioun
Date / Time / Direction
4/11/85 - 1155 - Facing east
Comments: Station 15
Commences. Startor 13
01.1
Photo 12